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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT			TTORNEY DOCKET NO.
Ø8/857,58	5 05/16/9	7 ABE		F	WATK: 040E
A1M1/Ø818				EXAMINER	
PARKHURST WENDEL & BURR SUITE 210			ı	PREISCH,N	
1421 PRINCE STREET				ART UNIT	PAPER NUMBER
ALEXANDRI	A VA 22314		ı	1106	32
<u></u>		•		DATE MAILED:	Ø8/18/97

Please find below a communication from the EXAMINER in charge of this application.

Commissioner of Patents



Office Action Summary

Application No. 08/857,585

Applicant(s)

Abe et al.

Examiner

Nadine Preisch

Group Art Unit 1106

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al matters, prosecution as to the merits is closed . 11; 453 O.G. 213.					
re3 month(s), or thirty days, whichever pond within the period for response will cause the f time may be obtained under the provisions of					
is/are pending in the application.					
is/are withdrawn from consideration.					
is/are allowed.					
is/are rejected.					
is/are objected to.					
are subject to restriction or election requirement.					
Application Papers See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948. The drawing(s) filed on					

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 1106

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 1-2, 4, 11 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The limitation of "Si/Al ratio" is indefinite because the units of the ratio are not defined. For instance, is the ratio an atomic ratio, a weight/weight ratio, etc.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-6 and 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over abstract (113:102645 CA) in view of Eberly, Jr. et al.(3,591,488).

Serial Number: 08857585

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In the pending application, applicants claim a composition comprising a high silica zeolite having a Si/Al ratio of not less than 40, and a heat resistant oxide, wherein the said heat resistant oxide is loaded with a noble metal. Applicants further claim an adsorbent comprising a honeycomb structure coated with a heat resistant oxide loaded with a noble metal.

Abstract (113:102645 CA) teaches a composition for automobile exhaust gas treatment comprising a zeolite and a heat resistant oxide in the form of alumina. The abstract also discloses that a noble metal in the form of Pt is loaded on alumina. For example, see abstract, lines 10-13. (113:102645 CA) also discloses that the support is honeycomb shaped. In addition, the support is coated with a heat resistant oxide in the form of alumina. For example, see abstract, lines 11-12.

Abstract (113:102645 CA) succeeds in teaching applicants' claimed zeolite component and heat resistant oxide component, other than zeolite, loaded with a noble metal in the form of alumina loaded with Pt. Furthermore, (113:102645 CA) also succeeds in teaching applicants' honeycomb shaped support.

Several differences are noted between the applied art of (113:102645 CA) and applicants' claimed invention. The abstract (113:102645 CA) is silent about the Si/Al ratio in the zeolite. Furthermore, (113:102645 CA) is silent about the specific structure of the honeycomb.

The reference of Eberly, Jr. et al.(3,591,488) is cited for the general teaching that it is known in the art that zeolites with that high silica/alumina ratios, such as 50, are desirable for high temperature conversions because they display increased thermal stability. For example, see column 2, lines 41-45 and column 5, lines 2-5.

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Since it is desirable for compositions to be thermally stable for exhaust gas treatment process due to the high temperatures involved, it would have been obvious to one of ordinary skill in the art at the time the invention was made to select a zeolite with a high silica/alumina ratio in the exhaust gas composition disclosed by (113:102645 CA) because it is known in the art that zeolites with a high silica/alumina ratio display increased thermal stability.

Furthermore, applicants' limitations directed at the specific shape of the honeycomb composition are not considered to be patentable distinctions because such shapes are conventional in the art.

Therefore, applicants' claimed compositions fail to patentably distinguish over the applied prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nadine Preisch whose telephone number is (703) 305-2667. The examiner can normally be reached on Monday through Thursday from 7:30 am to 6:00 pm.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

August 7, 1997

N.P.

With D. Soffi

WALTER D. GRIFFIN

EXAMINER

GROUP 1100